POLYMORPHISMS IN THE TNFRSF11B GENE

```
ACAGCGAACC CTAGAGCAAA GTGCCAAACT TCTGTCGATA GCTTGAGGCT
AGTGGAAAGA CCTCGAGGAG GCTACTCCAG AAGTTCAGCG CGTAGGAAGC      100
TCCGATACCA ATAGCCCTTT GATGATGGTG GGGTTGGTGA AGGGAACAGT
GCTCCGCAAG GTTATCCCTG CCCCAGGCAG TCCAATTTTC ACTCTGCAGA      200
TTCTCTCTGG CTCTAACTAC CCCAGATAAC AAGGAGTGAA TGCAGAATAG
CACGGGCTTT AGGGCCAATC AGACATTAGT TAGAAAAATT CCTACTACAT      300
GGTTTATGTA AACTTGAAGA TGAATGATTG CGAACTCCCC GAAAAGGGCT
CAGACAATGC CATGCATAAA GAGGGGCCCT GTAATTTGAG GTTTCAGAAC      400
CCGAAGTGAA GGGGTCAGGC AGCCGGGTAC GGCGGAAACT CACAGCTTTC
GCCCAGCGAG AGGACAAAGG TCTGGGACAC ACTCCAACTG CGTCCGGATC      500
TTGGCTGGAT CGGACTCTCA GGGTGGAGGA GACACAAGCA CAGCAGCTGC
           T
CCAGCGTGTG CCCAGCCCTC CCACCGCTGG TCCCGGCTGC CAGGAGGCTG      600
GCCGCTGGCG GGAAGGGGCC GGGAAACCTC AGAGCCCCGC GGAGACAGCA
GCCGCCTTGT TCCTCAGCCC GGTGGCTTTT TTTTCCCCTG CTCTCCCAGG      700
GGACAGACAC CACCGCCCCA CCCCTCACGC CCCACCTCCC TGGGGGATCC
                T                                 T
TTTCCGCCCC AGCCCTGAAA GCGTTAATCC TGGAGCTTTC TGCACACCCC      800
                          C
CCGACCGCTC CCGCCCAAGC TTCCTAAAAA AGAAAGGTGC AAAGTTTGGT
CCAGGATAGA AAAATGACTG ATCAAAGGCA GGCGATACTT CCTGTTGCCG      900
GGACGCTATA TATAACGTGA TGAGCGCACG GGCTGCGGAG ACGCACCGGA
GCGCTCGCCC AGCCGCCGCC TCCAAGCCCC TGAGGTTTCC GGGGACCACA     1000
ATGAACAAGT TGCTGTGCTG CGCGCTCGTG GTAAGTCCCT GGGCCAGCCG
           C                                      T
     [exon 1: 1001..
             ..1030]
ACGGGTGCCC GGCGCCTGGG GAGGCTGCTG CCACCTGGTC TCCCAACCTC     1100
CCAGCGGACC GGCGGGGAGA AGGCTCCACT CGCTCCCTCC CAGGAGAGGC
                          A
TTGGGGTTAG GCTGGAGCAG GAAACCGCTT TCAAGTTATG CCATGCTTCC     1200
CCTAGGGTGT CCTTTTACGC TGCAAAGTTC CTGCTGACTT TATGGAAGAC
          A
AGCAAGAGAG AGACAGACAG CGAGAGAGAG GGAGAGAGAG AGAGAGAGAA     1300
ACTTGTTTGA AAGTTTTAGT CATTAACCTT CTGTCTTCAT CTCAGAATAT
TAACGCCCTC ATGTAGTCCA TACTATCTTT GCTTAATGAA CTTGAACTTT     1400
TATTATTAGT GGCAAAGAAG TGGTCCCTTA GATTCAGAGT AAGTTGGAAG
AAGACGTTAG TCTTCTTAAA ACCATTATAA TTAGAATATG ACATGATAGA     1500
NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
CAGGACTTTG AGTCAAATGA TACTGTTGCA CATAAGAACA AACCTATTTT     1600
CATGCTAAGA TGATGCCACT GTGTTCCTTT CTCCTTCTAG TTTCTGGACA
       [exon 2: 1641..
TCTCCATTAA GTGGACCACC CAGGAAACGT TTCCTCCAAA GTACCTTCAT     1700
TATGACGAAG AAACCTCTCA TCAGCTGTTG TGTGACAAAT GTCCTCCTGG
TACCTACCTA AAACAACACT GTACAGCAAA GTGGAAGACC GTGTGCGCCC     1800
CTTGCCCTGA CCACTACTAC ACAGACAGCT GGCACACCAG TGACGAGTGT
CTATACTGCA GCCCCGTGTG CAAGGAGCTG CAGTACGTCA AGCAGGAGTG     1900
CAATCGCACC CACAACCGCG TGTGCGAATG CAAGGAAGGG CGCTACCTTG
AGATAGAGTT CTGCTTGAAA CATAGGAGCT GCCCTCCTGG ATTTGGAGTG     2000
GTGCAAGCTG GTACGTGTCA ATGTGCAGCA AAATTAATTA GGATCATGCA
           T
             ..2010]
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FIGURE 1A

```
AAGTCAGATA GTTGTGACAG TTTAGGAGAA CACTTTTGTT CTGATGACAT        2100
TATAGGATAG CAAATTGCAA AGGTAATGAA ACCTGCCAGG TAGGTACTAT
GTGTCTGGAG TGCTTCCAAA GGACCATTGC TCAGAGGAAT ACTTTGCCAC        2200
                              C
TACAGGGCAA TTTAATGACA AATCTCAAAT GCAGCAAATT ATTCTCTCAT
GAGATGCATG ATGGTTTTTT TTTTTTTTTT TAAAGAAACA AACTCAAGTT        2300
GCACTATTGA TAGTTGATCT ATACCTCTAT ATTTCACTTC AGCATGGACA
CCTTCAAACT GCAGCACTTT TTGACAAACA TCAGAAATGT TAATTTATAC        2400
CAAGAGAGTA ATTATGCTCA TATTAATGAG ACTCTGGAGT GCTAACAATA
AGCAGTTATA ATTAATTATG TAAAAAATGA GAATGGTGAG GGGAATTGCA        2500
TTTCATTATT AAAAACAAGG CTAGTTCTTC CTTTAGCATG GGAGCTGAGT
GTTGGGAGG GTAAGGACTA TAGCAGAATC TCTTCAATGA GCTTATTCTT        2600
TATCTTAGAC AAAACAGATT GTCAAGCCAA GAGCAAGCAC TTGCCTATAA
ACCAAGTGCT TTCTCTTTTG CATTTGAAC AGCATTGGTC AGGGCTCATG        2700
TGTATTGAAT CTTTTAAACC AGTAACCCAC GTTTTTTTTC TGCCACATTT
GCGAAGCTTC AGTGCAGCCT ATAACTTTTC ATAGCTTGAG AAAATTAAGA        2800
GTATCCACTT ACTTAGATGG AAGAAGTAAT CAGTATAGAT TCTGATGACT
CAGTTTGAAG CAGTGTTTCT CAACTGAAGC CCTGCTGATA TTTTAAGAAA        2900
TATCTGGATT CCTAGGCTGG ACTCCTTTTT GTGGGCAGCT GTCCTGCGCA
TTGTAGAATT TTGGCAGCAC CCCTGGACTC TAGCCACTAG ATACCAATAG        3000
CAGTCCTTCC CCCATGTGAC AGCCAAAAAT GTCTTCAGAC ACTGTCAAAT
GTCGCCAGGT GGCAAAATCA CTCCTGGTTG AGAACAGGGT CATCAATGCT        3100
AAGTATCTGT AACTATTTTA ACTCTCAAAA CTTGTGATAT ACAAAGTCTA
AATTATTAGA CGACCAATAC TTTAGGTTTA AAGGCATACA AATGAAACAT        3200
TCAAAAATCA AAATCTATTC TGTTTCTCAA ATAGTGAATC TTATAAAATT
AATCACAGAA GATGCAAATT GCATCAGAGT CCCTTAAAAT TCCTCTTCGT        3300
ATGAGTATTT GAGGGAGGAA TTGGTGATAG TTCCTACTTT CTATTGGATG
GTACTTTGAG ACTCAAAAGC TAAGCTAAGT TGTGTGTGTG TCAGGGTGCG        3400
GGGTGTGGAA TCCCATCAGA TAAAAGCAAA TCCATGTAAT TCATTCAGTA
AGTTGTATAT GTAGAAAAAT GAAAAGTGGG CTATGCAGCT TGGAAACTAG        3500
AGAATTTTGA AAAATAATGG AAATCACAAG GATCTTTCTT AAATAAGTAA
GAAAATCTGT TTGTAGAATG AAGCAAGCAG GCAGCCAGAA GACTCAGAAC        3600
AAAAGTACAC ATTTTACTCT GTGTACACTG GCAGCACAGT GGGATTTATT
TACCTCTCCC TCCCTAAAAA CCCACACAGC GGTTCCTCTT GGGAAATAAG        3700
AGGTTTCCAG CCCAAAGAGA AGGAAAGACT ATGTGGTGTT ACTCTAAAAA
GTATTTAATA ACCGTTTTGT TGTTGCTGTT GCTGTTTTGA AATCAGATTG        3800
TCTCCTCTCC ATATTTTATT TACTTCATTC TGTTAATTCC TGTGGAATTA
CTTAGAGCAA GCATGGTGAA TTCTCAACTG TAAAGCCAAA TTTCTCCATC        3900
ATTATAATTT CACATTTTGC CTGGCAGGTT ATAATTTTTA TATTTCCACT
GATAGTAATA AGGTAAAATC ATTACTTAGA TGGATAGATC TTTTTCATAA        4000
AAAGTACCAT CAGTTATAGA GGGAAGTCAT GTTCATGTTC AGGAAGGTCA
TTAGATAAAG CTTCTGAATA TATTATGAAA CATTAGTTCT GTCATTCTTA        4100
GATTCTTTTT GTTAAATAAC TTTAAAGCT AACTTACCTA AAAGAAATAT
CTGACACATA TGAACTTCTC ATTAGGATGC AGGAGAAGAC CCAAGCCACA        4200
GATATGTATC TGAAGAATGA ACAAGATTCT TAGGCCCGGC ACGGTGGCTC
ACATCTGTAA TCTCAAGAGT TTGAGAGGTC AAGGCGGGCA GATCACCTGA        4300
GGTCAGGAGT TCAAGACCAG CCTGGCCAAC ATGATGAAAC CCTGCCTCTA
CTAAAAATAC AAAAATTAGC AGGGCATGGT GGTGCATGCC TGCAACCCTA        4400
GCTACTCAGG AGGCTGAGAC AGGAGAATCT CTTGAACCCT CGAGGCGGAG
GTTGTGGTGA GCTGAGATCC CTCTACTGCA CTCCAGCCTG GGTGACAGAG        4500
ATGAGACTCC GTCCCTGCCG CCGCCCCCGC CTTCCCCCCC AAAAAGATTC
TTCTTCATGC AGAACATACG GCAGTCAACA AAGGGAGACC TGGGTCCAGG        4600
TGTCCAAGTC ACTTATTTCG AGTAAATTAG CAATGAAAGA ATGCCATGGA
ATCCCTGCCC AAATACCTCT GCTTATGATA TTGTAGAATT TGATATAGAG        4700
```

FIGURE 1B

```
TTGTATCCCA TTTAAGGAGT AGGATGTAGT AGGAAAGTAC TAAAAACAAA
CACACAAACA GAAAACCCTC TTTGCTTTGT AAGGTGGTTC CTAAGATAAT        4800
GTCAGTGCAA TGCTGGAAAT AATATTTAAT ATGTGAAGGT TTTAGGCTGT
GTTTTCCCCT CCTGTTCTTT TTTTCTGCCA GCCCTTTGTC ATTTTTGCAG        4900
GTCAATGAAT CATGTAGAAA GAGACAGGAG ATGAAACTAG AACCAGTCCA
TTTTGCCCCT TTTTTTATTT TCTGGTTTTG GTAAAGATA CAATGAGGTA         5000
GGAGGTTGAG ATTTATAAAT GAAGTTTAAT AAGTTTCTGT AGCTTTGATT
TTTCTCTTTC ATATTTGTTA TCTTGCATAA GCCAGAATTG GCCTGTAAAA        5100
TCTACATATG GATATTGAAG TCTAAATCTG TTCAACTAGC TTACACTAGA
TGGAGATATT TTCATATTCA GATACACTGG AATGTATGAT CTAGCCATGC        5200
GTAATATAGT CAAGTGTTTG AAGGTATTTA TTTTTAATAG CGTCTTTAGT
TGTGGACTGG TTCAAGTTTT TCTGCCAATG ATTTCTTCAA ATTTATCAAA        5300
TATTTTTCCA TCATGAAGTA AAATGCCCTT GCAGTCACCC TTCCTGAAGT
TTGAACGACT CTGCTGTTTT AAACAGTTTA AGCAAATGGT ATATCATCTT        5400
CCGTTTACTA TGTAGCTTAA CTGCAGGCTT ACGCTTTTGA GTCAGCGGCC
AACTTTATTG CCACCTTCAA AAGTTTATTA TAATGTTGTA AATTTTTACT        5500
TCTCAAGGTT AGCATACTTA GGAGTTGCTT CACAATTAGG ATTCAGGAAA
GAAAGAACTT CAGTAGGAAC TGATTGGAAT TTAATGATGC AGCATTCAAT        5600
GGGTACTAAT TTCAAAGAAT GATATTACAG CAGACACACA GCAGTTATCT
TGATTTTCTA GGAATAATTG TATGAAGAAT ATGGCTGACA ACACGGCCTT        5700
ACTGCCACTC AGCGGAGGCT GGACTAATGA ACACCCTACC CTTCTTTCCT
TTCCTCTCAC ATTTCATGAG CGTTTTGTAG GTAACGAGAA AATTGACTTG        5800
CATTTGCATT ACAAGGAGGA GAAACTGGCA AAGGGGATGA TGGTGGAAGT
TTTGTTCTGT CTAATGAAGT GAAAAATGAA AATGCTAGAG TTTTGTGCAA        5900
CATAATAGTA GCAGTAAAAA CCAAGTGAAA AGTCTTTCCA AAACTGTGTT
C
AAGAGGGCAT CTGCTGGGAA ACGATTTGAG GAGAAGGTAC TAAATTGCTT        6000
GGTATTTTCC GTAGGAACCC CAGAGCGAAA TACAGTTTGC AAAAGATGTC
                        T
   [exon 3: 6015..
CAGATGGGTT CTTCTCAAAT GAGACGTCAT CTAAAGCACC CTGTAGAAAA        6100
CACACAAATT GCAGTGTCTT TGGTCTCCTG CTAACTCAGA AAGGAAATGC
AACACACGAC AACATATGTT CCGGAAACAG TGAATCAACT CAAAAATGTG        6200
GAATAGGTAA TTACATTCCA AAATACGTCT TTGTACGATT TTGTAGTATC
             ..6206]
ATCTCTCTCT CTGAGTTGAA CACAAGGCCT CCAGCCACAT TCTTGGTCAA        6300
ACTTACATTT TCCCTTTCTT GAATCTTAAC CAGCTAAGGC TACTCTCGAT
GCATTACTGC TAAAGCTACC ACTCAGAATC TCTCAAAAAC TCATCTTCTC        6400
ACAGATAACA CCTCAAAGCT TGATTTTCTC TCCTTTCACA CTGAAATCAA
ATCTTGCCCA TAGGCAAAGG GCAGTGTCAA GTTTGCCACT GAGATGAAAT        6500
TAGGAGAGTC CAAACTGTAG AATTCACGTT GTGTGTTATT ACTTTCACGA
ATGTCTGTAT TATTAACTAA AGTATATATT GGCAACTAAG AAGCAAAGTG        6600
ATATAAACAT GATGACAAAT TAGGCCAGGC ATGGTGGCTT ACTCCTATAA
TCCCAACATT TTGGGGGGCC AAGGTAGGCA GATCACTTGA GGTCAGGATT        6700
TCAAGACCAG CCTGACCAAC ATGGTGAAAC CTTGTCTCTA CTAAAAATAC
AAAAATTAGC TGGGCATGGT AGCAGGCACT TCTAGTACCA GCTACTCAGG        6800
GCTGAGGCAG GAGAATCGCT TGAACCCAGG AGATGGAGGT TGCAGTGAGC
TGAGATTGTA CCACTGCACT CCAGTCTGGG CAACAGAGCA AGATTTCATC        6900
ACACACACAC ACACACACAC ACACACACAC ATTAGAAATG TGTACTTGGC
TTTGTTACCT ATGGTATTAG TGCATCTATT GCATGGAACT TCCAAGCTAC        7000
TCTGGTTGTG TTAAGCTCTT CATTGGGTAC AGGTCACTAG TATTAAGTTC
AGGTTATTCG GATGCATTCC ACGGTAGTGA TGACAATTCA TCAGGCTAGT        7100
GTGTGTGTTC ACCTTGTCAC TCCCACCACT AGACTAATCT CAGACCTTCA
CTCAAAGACA CATTACACTA AAGATGATTT GCTTTTTTGT GTTTAATCAA        7200
```

FIGURE 1C

```
GCAATGGTAT AAACCAGCTT GACTCTCCCC AAACAGTTTT TCGTACTACA
AAGAAGTTTA TGAAGCAGAG AAATGTGAAT TGATATATAT ATGAGATTCT          7300
AACCCAGTTC CAGCATTGTT TCATTGTGTA ATTGAAATCA TAGACAAGCC
ATTTTAGCCT TTGCTTTCTT ATCTAAAAAA AAAAAAAAAA AAATGAAGGA          7400
AGGGGTATTA AAAGGAGTGA TCAAATTTTA ACATTCTCTT TAATTAATTC
ATTTTTAATT TTACTTTTTT TCATTTATTG TGCACTTACT ATGTGGTACT          7500
GTGCTATAGA GGCTTTAACA TTTATAAAAA CACTGTGAAA GTTGCTTCAG
ATGAATATAG GTAGTAGAAC GGCAGAACTA GTATTCAAAG CCAGGTCTGA          7600
TGAATCCAAA AACAAACACC CATTACTCCC ATTTCTGGG ACATACTTAC
TCTACCCAGA TGCTCTGGGC TTTGTAATGC CTATGTAAAT AACATAGTTT          7700
TATGTTTGGT TATTTTCCTA TGTAATGTCT ACTTATATAT CTGTATCTAT
CTCTTGCTTT GTTTCCAAAG GTAAACTATG TGTCTAAATG TGGGCAAAAA          7800
ATAACACACT ATTCCAAATT ACTGTTCAAA TTCCTTTAAG TCAGTGATAA
TTATTTGTTT TGACATTAAT CATGAAGTTC CCTGTGGGTA CTAGGTAAAC          7900
CTTTAATAGA ATGTTAATGT TTGTATTCAT TATAAGAATT TTTGGCTGTT
ACTTATTTAC AACAATATTT CACTCTAATT AGACATTTAC TAAACTTTCT          8000
CTTGAAAACA ATGCCCAAAA AAGAACATTA GAAGACACGT AAGCTCAGTT
GGTCTCTGCC ACTAAGACCA GCCAACAGAA GCTTGATTTT ATTCAAACTT          8100
TGCATTTTAG CATATTTTAT CTTGGAAAAT TCAATTGTGT TGGTTTTTTG
          A
TTTTTGTTTG TATTGAATAG ACTCTCAGAA ATCCAATTGT TGAGTAAATC          8200
TTCTGGGTTT TCTAACCTTT CTTTAGATGT TACCCTGTGT GAGGAGGCAT
     [exon 4: 8227..
TCTTCAGGTT TGCTGTTCCT ACAAAGTTTA CGCCTAACTG GCTTAGTGTC          8300
TTGGTAGACA ATTTGCCTGG CACCAAAGTA AACGCAGAGA GTGTAGAGAG
                                       T
GATAAAACGG CAACACAGCT CACAAGAACA GACTTTCCAG CTGCTGAAGT          8400
     G
TATGGAAACA TCAAAACAAA GACCAAGATA TAGTCAAGAA GATCATCCAA
     G
GGTATGATAA TCTAAAATAA AAAGATCAAT CAGAAATCAA AGACACCTAT          8500
     C
          ..8451]
TTATCATAAA CCAGGAACAA GACTGCATGT ATGTTTAGTT GTGTGGATCT
TGTTTCCCTG TTGGAATCAT TGTTGGACTG AAAAAGTTTC CACCTGATAA          8600
TGTAGATGTG ATTCCACAAA CAGTTATACA AGGTTTTGTT CTCACCCCTG
CTCCCCAGTT TCCTTGTAAA GTATGTTGAA CACTCTAAGA GAAGAGAAAT          8700
GCATTTGAAG GCAGGGCTGT ATCTCAGGGA GTCGCTTCCA GATCCCTTAA
CGCTTCTGTA AGCAGCCCCT CTAGACCACC AAGGAGAAGC TCTATAACCA          8800
CTTTGTATCT TACATTGCAC CTCTACCAAG AAGCTCTGTT GTATTTACTT
GGTAATTCTC TCCAGGTAGG CTTTTCGTAG CTTACAAATA TGTTCTTATT          8900
AATCCTCATG ATATGGCCTG CATTAAAATT ATTTTAATGG CATATGTTAT
GAGAATTAAT GAGATAAAAT CTGAAAAGTG TTTGAGCCTC TTGTAGGAAA          9000
AAGCTAGTTA CAGCAAAATG TTCTCACATC TTATAAGTTT ATATAAAGAT
TCTCCTTTAG AAATGGTGTG AGAGAGAAAC AGAGAGAGAT AGGGAGAGAA          9100
GTGTGAAAGA ATCTGAAGAA AAGGAGTTTC ATCCAGTGTG GACTGTAAGC
TTTACGACAC ATGATGGAAA GAGTTCTGAC TTCAGTAAGC ATTGGGAGGA          9200
CATGCTAGAA GAAAAAGGAA GAAGAGTTTC CATAATGCAG ACAGGGTCAG
TGAGAAATTC ATTCAGGTCC TCACCAGTAG TTAAATGACT GTATAGTCTT          9300
GCACTACCCT AAAAAACTTC AAGTATCTGA AACCGGGGCA ACAGATTTTA
GGAGACCAAC GTCTTTGAGA GCTGATTGCT TTTGCTTATG CAAAGAGTAA          9400
ACTTTTATGT TTTGAGCAAA CCAAAGTAT TCTTTGAACG TATAATTAGC
CCTGAAGCCG AAAGAAAAGA GAAATCAGA GACCGTTAGA ATTGGAAGCA          9500
ACCAAATTCC CTATTTTATA AATGAGGACA TTTTAACCCA GAAAGATGAA
```

FIGURE 1D

```
CCGATTTGGC TTAGGGCTCA CAGATACTAA GTGACTCATG TCATTAATAG          9600
AAATGTTAGT TCCTCCCTCT TAGGTTTGTA CCCTAGCTTA TTACTGAAAT
ATTCTCTAGG CTGTGTGTCT CCTTTAGTTC CTCGACCTCA TGTCTTTGAG          9700
TTTTCAGATA TCCTCCTCAT GGAGGTAGTC CTCTGGTGCT ATGTGTATTC
TTTAAAGGCT AGTTACGGCA ATTAACTTAT CAACTAGCGC CTACTAATGA          9800
AACTTTGTAT TACAAAGTAG CTAACTTGAA TACTTTCCTT TTTTTCTGAA
ATGTTATGGT GGTAATTTCT CAAACTTTTT CTTAGAAAAC TGAGAGTGAT          9900
GTGTCTTATT TTCTACTGTT AATTTTCAAA ATTAGGAGCT TCTTCCAAAG
TTTTGTTGGA TGCCAAAAAT ATATAGCATA TTATCTTATT ATAACAAAA          10000
ATATTTATCT CAGTTCTTAG AAATAAATGG TGTCACTTAA CTCCCTCTCA
AAAGAAAAGG TTATCATTGA AATATAATTA TGAAATTCTG CAAGAACCTT          10100
TTGCCTCACG CTTGTTTTAT GATGGCATTG GATGAATATA AATGATGTGA
ACACTTATCT GGGCTTTTGC TTTATGCAGA TATTGACCTC TGTGAAAACA          10200
     [exon 5: 10180..
GCGTGCAGCG GCACATTGGA CATGCTAACC TCACCTTCGA GCAGCTTCGT
   A
AGCTTGATGG AAAGCTTACC GGGAAAGAAA GTGGGAGCAG AAGACATTGA          10300
AAAAACAATA AAGGCATGCA AACCCAGTGA CCAGATCCTG AAGCTGCTCA
GTTTGTGGCG AATAAAAAAT GGCGACCAAG ACACCTTGAA GGGCCTAATG          10400
CACGCACTAA AGCACTCAAA GACGTACCAC TTTCCCAAAA CTGTCACTCA
GAGTCTAAAG AAGACCATCA GGTTCCTTCA CAGCTTCACA ATGTACAAAT          10500
TGTATCAGAA GTTATTTTTA GAAATGATAG GTAACCAGGT CCAATCAGTA
         C
AAAATAAGCT GCTTATAACT GGAAATGGCC ATTGAGCTGT TTCCTCACAA          10600
         ..10568]
TTGGCGAGAT CCCATGGATG AGTAAACTGT TTCTCAGGCA CTTGAGGCTT
TCAGTGATAT CTTTCTCATT ACCAGTGACT AATTTTGCCA CAGGGTACTA          10700
AAAGAAACTA TGATGTGGAG AAAGGACTAA CATCTCCTCC AATAAACCCC
AAATGGTTAA TCCAACTGTC AGATCTGGAT CGTTATCTAC TGACTATATT          10800
TTCCCTTATT ACTGCTTGCA GTAATTCAAC TGGAAATTAA AAAAAAAAAA
CTAGACTCCA CTGGGCCTTA CTAAATATGG GAATGTCTAA CTTAAATAGC          10900
TTTGGGATTC CAGCTATGCT AGAGGCTTTT ATTAGAAAGC CATATTTTTT
TCTGTAAAAG TTACTAATAT ATCTGTAACA CTATTACAGT ATTGCTATTT          11000
ATATTCATTC AGATATAAGA TTTGGACATA TTATCATCCT ATAAAGAAAC
GGTATGACTT AATTTTAGAA AGAAAATTAT ATTCTGTTTA TTATGACAAA          11100
TGAAAGAGAA AATATATATT TTTAATGGAA AGTTGTAGC ATTTTTCTAA
TAGGTACTGC CATATTTTTC TGTGTGGAGT ATTTTTATAA TTTTATCTGT          11200
ATAAGCTGTA ATATCATTTT ATAGAAAATG CATTATTTAG TCAATTGTTT
AATGTTGGAA AACATATGAA ATATAAATTA TCTGAATATT AGATGCTCTG          11300
AGAAATTGAA TGTACCTTAT TTAAAGATT TTATGGTTTT ATAACTATAT
AAATGACATT ATTAAAGTTT TCAAATTATT TTTTATTGCT TTCTCTGTTG          11400
CTTTTATT                                                       11408
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FIGURE 1E

POLYMORPHISMS IN THE CODING SEQUENCE OF TNFRSF11B

```
ATGAACAAGT TGCTGTGCTG CGCGCTCGTG TTTCTGGACA TCTCCATTAA
         C
GTGGACCACC CAGGAAACGT TTCCTCCAAA GTACCTTCAT TATGACGAAG         100
AAACCTCTCA TCAGCTGTTG TGTGACAAAT GTCCTCCTGG TACCTACCTA
AAACAACACT GTACAGCAAA GTGGAAGACC GTGTGCGCCC CTTGCCCTGA         200
CCACTACTAC ACAGACAGCT GGCACACCAG TGACGAGTGT CTATACTGCA
GCCCCGTGTG CAAGGAGCTG CAGTACGTCA AGCAGGAGTG CAATCGCACC         300
CACAACCGCG TGTGCGAATG CAAGGAAGGG CGCTACCTTG AGATAGAGTT
CTGCTTGAAA CATAGGAGCT GCCCTCCTGG ATTTGGAGTG GTGCAAGCTG         400
GAACCCCAGA GCGAAATACA GTTTGCAAAA GATGTCCAGA TGGGTTCTTC
TCAAATGAGA CGTCATCTAA AGCACCCTGT AGAAAACACA CAAATTGCAG         500
TGTCTTTGGT CTCCTGCTAA CTCAGAAAGG AAATGCAACA CACGACAACA
TATGTTCCGG AAACAGTGAA TCAACTCAAA AATGTGGAAT AGATGTTACC         600
CTGTGTGAGG AGGCATTCTT CAGGTTTGCT GTTCCTACAA AGTTTACGCC
TAACTGGCTT AGTGTCTTGG TAGACAATTT GCCTGGCACC AAAGTAAACG         700
                                                    T
CAGAGAGTGT AGAGAGGATA AAACGGCAAC ACAGCTCACA AGAACAGACT
         G
TTCCAGCTGC TGAAGTTATG GAAACATCAA AACAAAGACC AAGATATAGT         800
         G
CAAGAAGATC ATCCAAGATA TTGACCTCTG TGAAAACAGC GTGCAGCGGC
                                              A
ACATTGGACA TGCTAACCTC ACCTTCGAGC AGCTTCGTAG CTTGATGGAA         900
AGCTTACCGG GAAAGAAAGT GGGAGCAGAA GACATTGAAA AAACAATAAA
GGCATGCAAA CCCAGTGACC AGATCCTGAA GCTGCTCAGT TTGTGGCGAA         1000
TAAAAAATGG CGACCAAGAC ACCTTGAAGG GCCTAATGCA CGCACTAAAG
CACTCAAAGA CGTACCACTT TCCCAAAACT GTCACTCAGA GTCTAAAGAA         1100
GACCATCAGG TTCCTTCACA GCTTCACAAT GTACAAATTG TATCAGAAGT
                                              C
TATTTTTAGA AATGATAGGT AACCAGGTCC AATCAGTAAA AATAAGCTGC         1200
TTATAA                                                        1206
```

FIGURE 2

ISOFORMS OF THE TNFRSF11B PROTEIN

```
MNKLLCCALV FLDISIKWTT QETFPPKYLH YDEETSHQLL CDKCPPGTYL
   N
KQHCTAKWKT VCAPCPDHYY TDSWHTSDEC LYCSPVCKEL QYVKQECNRT        100
HNRVCECKEG RYLEIEFCLK HRSCPPGFGV VQAGTPERNT VCKRCPDGFF
SNETSSKAPC RKHTNCSVFG LLLTQKGNAT HDNICSGNSE STQKCGIDVT        200
LCEEAFFRFA VPTKFTPNWL SVLVDNLPGT KVNAESVERI KRQHSSQEQT
                                         M
FQLLKLWKHQ NKDQDIVKKI IQDIDLCENS VQRHIGHANL TFEQLRSLME        300
                                M
SLPGKKVGAE DIEKTIKACK PSDQILKLLS LWRIKNGDQD TLKGLMHALK
HSKTYHFPKT VTQSLKKTIR FLHSFTMYKL YQKLFLEMIG NQVQSVKISC        400
L                                                           401
```

FIGURE 3